

WHAT IS CLAIMED IS:

1 1. An activation device for a damper having a piston assembly and a piston rod
2 assembly provided with a piston rod which has an axial passage defined in the piston rod
3 and a fluid hole defined in a side face of the piston rod to communicate the axial passage
4 with a space outside the piston rod, the activation device comprising:

5 a stopping tube adapted to be securely received in the piston rod and having
6 grooves defined in a peripheral edge of the stopping tube and first teeth formed on the
7 peripheral edge of the stopping tube;

8 a driving tube adapted to be movably received in the piston rod and in the
9 stopping tube and having second teeth formed on a peripheral edge of the driving tube;
10 and

11 a rotating tube adapted to be movably received in the piston rod and having third
12 teeth engaged with the second teeth so that the movement of the driving tube is able to
13 drive the rotating tube to rotate an angle to selectively allow a corresponding one of the
14 third teeth to be received in the grooves such that communication between the axial
15 passage and the space is selectively plugged.

16 2. The activation device as claimed in claim 1, wherein a switching plug is
17 provided to be operably connected to the rotating tube and receivable in the axial
18 passage such that when the rotating tube is moved due to the movement of the driving
19 tube, the switching plug selectively plugs the axial passage.

20 3. The activation device as claimed in claim 2, wherein the switching plug has a
21 conical head formed on a free end of the switching plug so as to plug the axial passage.

22 4. The activation device as claimed in claim 1, wherein the first teeth has a
23 dimension larger than a dimension of the second teeth.

1 5. The activation device as claimed in claim 3, wherein the first teeth has a
2 dimension larger than a dimension of the second teeth.

3 6. The activation device as claimed in claim 4, wherein at least one first tooth is
4 sandwiched between two adjacent grooves of the stopping tube.

5 7. The activation device as claimed in claim 5, wherein at least one first tooth is
6 sandwiched between two adjacent grooves of the stopping tube.

7 8. The activation device as claimed in claim 1 further comprising a recoil spring
8 mounted under the rotating tube to provide a recoil force to the rotating tube.

9 9. The activation device as claimed in claim 2 further comprising a recoil spring
10 mounted under the rotating tube to provide a recoil force to the rotating tube.

11 10. The activation device as claimed in claim 3 further comprising a recoil
12 spring mounted under the rotating tube to provide a recoil force to the rotating tube.

13 11. The activation device as claimed in claim 4 further comprising a recoil
14 spring mounted under the rotating tube to provide a recoil force to the rotating tube.

15 12. The activation device as claimed in claim 5 further comprising a recoil
16 spring mounted under the rotating tube to provide a recoil force to the rotating tube.

17 13. The activation device as claimed in claim 6 further comprising a recoil
18 spring mounted under the rotating tube to provide a recoil force to the rotating tube.

19 14. The activation device as claimed in claim 7 further comprising a recoil
20 spring mounted under the rotating tube to provide a recoil force to the rotating tube.